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AMENDMENTS TO THE CLAIMS:

If entered, this listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1 19. (Canceled)
- 20. (Currently Amended) A method to pattern a photoresist layer in the manufacture of an integrated circuit device wherein said integrated circuit device comprises a plurality of fields, said method comprising:
- depositing a photoresist layer overlying a wafer;

 loading a first mask and a second mask in a mask stage

 of an exposure apparatus wherein said mask stage maintains

 a fixed relative position between said first mask and said

 second mask;
- aligning said first mask and said second mask to said wafer;

indexing said wafer to such that said first mask overlies a starting said field; to set a current field; thereafter scanning said first mask to expose said

15 current field;

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thereafter stepping said wafer to a next field

unexposed by said first mask to set a new said current

field;

thereafter repeating said scanning and stepping until

20 every said field on said semiconductor substrate is exposed

with said first mask;

thereafter performing a first exposure pass on said wafer by repeatedly performing the steps of:

scanning said field using said first mask; and
stepping said wafer such that said first mask

overlies a next said field yet unexposed by said first
mask;

until all said fields in said wafer have been exposed by said first mask;

thereafter returning indexing said wafer to such that said second mask overlies said starting field; to set said current field;

thereafter scanning said second mask to expose said
current field;

thereafter stepping said wafer to a next field

unexposed by said second mask to set a new said current

field;

thereafter repeating said scanning and stepping until
every said field on said semiconductor substrate is exposed

40 with said second mask to thereby superimpose the patterns of said first mask and said second mask in every said field; and

thereafter performing a second exposure pass on said wafer by repeatedly performing the steps of:

scanning said field using said second mask; and
stepping said wafer such that said second mask
overlies a next said field yet unexposed by said
second mask;

until all said fields in said wafer have been exposed by

50 said second mask; and

developing said photoresist layer to thereby complete said patterning in the manufacture of said integrated circuit device.

- 21. (Original) The method according to Claim 20 wherein said fixed relative position between said first mask and said second mask comprises adjacent, coplanar, and consistent with direction of said stepping through.
- 22. (Original) The method according to Claim 20 wherein said fixed relative position between said first mask and said second mask comprises adjacent, coplanar, and perpendicular to direction of said stepping through.

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- 23. (Original) The method according to Claim 20 wherein first mask comprises a phase-shifting mask and wherein said second mask comprises a binary intensity mask.
- 24. (Currently Amended) A method to pattern a photoresist layer in the manufacture of an integrated circuit device wherein said integrated circuit device comprises a plurality of fields, said method comprising:
- depositing a photoresist layer overlying a wafer;

 loading a first mask and a second mask in a mask stage

 of an optical lithographic, stepper wherein said mask stage

 maintains a fixed relative position between said first mask

 and said second mask;
- aligning said first mask and said second mask mask $\underline{\text{to}}$ said wafer;

indexing said wafer to such that said first mask overlies a starting field; to set a current field;

thereafter scanning said first mask to expose said

thereafter scanning said second mask to expose an adjacent field;

thereafter stepping said wafer to a next-field
unexposed by said first mask to set a new said current

TS-00-387 20 field; and

thereafter repeating said scanning and stepping until
every said field on said semiconductor substrate is
exposed;

thereafter performing a first exposure pass on said

25 wafer by repeatedly performing the steps of:

scanning said field using said first mask;
scanning an adjacent field using said second
mask; and

stepping said wafer such that said first mask

overlies a next said field yet unexposed by said first or second masks;

until all said fields in said wafer have been exposed by either said first mask or said second mask;

thereafter returning indexing said wafer to such that

said first mask overlies said starting field; to set said

current field;

thereafter stepping said wafer to a next field

unexposed by said second mask to set a new said current

field;

thereafter scanning said second mask;

thereafter stepping said wafer to a next field

unexposed by said first mask to set a new said current

field;

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thereafter scanning said first mask to expose said

45 current field;

thereafter repeating said scanning and stepping until

every said field on said semiconductor substrate is exposed

to thereby superimpose the patterns of said first mask and

said second mask in every said field; and

thereafter performing a second exposure pass on said wafer by repeatedly performing the steps of:

stepping said wafer such that said second mask
overlies a next said field yet unexposed by said
second mask;

scanning said field using said second mask;

stepping said wafer such that said first mask

overlies a next said field yet unexposed by said first

mask; and

scanning said field using said first mask;
until all said fields in said wafer have been exposed by
said first mask and by said second mask; and

developing said photoresist layer to thereby complete said patterning in the manufacture of said integrated circuit device.

25. (Original) The method according to Claim 24 wherein said fixed relative position between said first mask and

said second mask comprises adjacent, coplanar, and consistent with direction of said stepping through.

- 26. (Original) The method according to Claim 24 wherein first mask comprises a phase-shifting mask and wherein said second mask comprises a binary intensity mask.
- 27. (Original) The method according to Claim 24 wherein any of said fields at the beginning and the end of rows of said fields is only exposed through a single said mask.